OIPE



RAW SEQUENCE LISTING

DATE: 03/12/2002

PATENT APPLICATION: US/10/084,843 TIME: 09:41:42

Input Set : N:\Crf3\RULE60\10084843.raw Output Set: N:\CRF3\03122002\J084843.raw

SEQUENCE LISTING

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(1) GENERAL INFORMATION:
             (i) APPLICANT: Reed, Steven G.
      5
      6
                            Skeiky, Yasir A.W.
      7
                            Dillon, Davin C.
                                                                   ENTERED
      8
                            Campos-Neto, Antonio
      9
                            Houghton, Raymond
     10
                            Vedvick, Thomas S.
                            Twardzik, Daniel R.
     11
                            Lodes, Michael J.
     12
     13
                            Hendrickson, Ronald C.
            (ii) TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
     15
                                      AND DIAGNOSIS OF TUBERCULOSIS
     16
     18
           (iii) NUMBER OF SEQUENCES: 355
            (iv) CORRESPONDENCE ADDRESS:
     20
     21
                  (A) ADDRESSEE: SEED and BERRY LLP
     22
                  (B) STREET: 6300 Columbia Center, 701 Fifth Avenue
     23
                  (C) CITY: Seattle
     24
                  (D) STATE: Washington
     25
                  (E) COUNTRY: USA
     26
                  (F) ZIP: 98104-7092
     28
             (V) COMPUTER READABLE FORM:
     29
                  (A) MEDIUM TYPE: Floppy disk
     30
                  (B) COMPUTER: IBM PC compatible
     31
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     32
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     34
            (vi) CURRENT APPLICATION DATA:
C--> 35
                  (A) APPLICATION NUMBER: US/10/084,843
C--> 36
                  (B) FILING DATE: 25-Feb-2002
     37
                  (C) CLASSIFICATION:
     39
           (vii) PRIOR APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/072,967
     40
     41
                  (B) FILING DATE: 05-MAY-1998
     44
          (viii) ATTORNEY/AGENT INFORMATION:
     45
                  (A) NAME: Maki, David J.
                  (B) REGISTRATION NUMBER: 31,392
     46
     47
                  (C) REFERENCE/DOCKET NUMBER: 210121.411C9
     49
            (ix) TELECOMMUNICATION INFORMATION:
     50
                  (A) TELEPHONE: (206) 622-4900
     51
                  (B) TELEFAX: (206) 682-6031
     54 (2) INFORMATION FOR SEQ ID NO: 1:
     56
             (i) SEQUENCE CHARACTERISTICS:
     57
                  (A) LENGTH: 766 base pairs
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58	(B) TYPE: nucleic acid					
59	(C) STRANDEDNESS: single					
60	(D) TOPOLOGY: linear					
62	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:					
64	CGAGGCACCG GTAGTTTGAA CCAAACGCAC AATCGACGGG CAAACGAACG GAAGAACACA	60				
-	ACCATGAAGA TGGTGAAATC GATCGCCGCA GGTCTGACCG CCGCGGCTGC AATCGGCGCC	120				
66	GCTGCGGCCG GTGTGACTTC GATCATGGCT GGCGGCCCGG TCGTATACCA GATGCAGCCG	180				
	GTCGTCTTCG GCGCGCCACT GCCGTTGGAC CCGGCATCCG CCCCTGACGT CCCGACCGCC	240				
	GCCCAGTTGA CCAGCCTGCT CAACAGCCTC GCCGATCCCA ACGTGTCGTT TGCGAACAAG	300				
	GGCAGTCTGG TCGAGGGCGG CATCGGGGGC ACCGAGGCGC GCATCGCCGA CCACAAGCTG	360				
	AAGAAGGCCG CCGAGCACGG GGATCTGCCG CTGTCGTTCA GCGTGACGAA CATCCAGCCG	420				
	GCGGCCGCCG GTTCGGCCAC CGCCGACGTT TCCGTCTCGG GTCCGAAGCT CTCGTCGCCG	480				
	GTCACGCAGA ACGTCACGTT CGTGAATCAA GGCGGCTGGA TGCTGTCACG CGCATCGGCG	540				
	ATGGAGTTGC TGCAGGCCGC AGGGNAACTG ATTGGCGGGC CGGNTTCAGC CCGCTGTTCA	600				
	GCTACGCCGC CCGCCTGGTG ACGCGTCCAT GTCGAACACT CGCGCGTGTA GCACGGTGCG	660				
	GTNTGCGCAG GGNCGCACGC ACCGCCCGGT GCAAGCCGTC CTCGAGATAG GTGGTGNCTC	720				
	GNCACCAGNG ANCACCCCCN NNTCGNCNNT TCTCGNTGNT GNATGA	766				
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80	(i) SEQUENCE CHARACTERISTICS:					
81	(A) LENGTH: 752 base pairs					
82	(B) TYPE: nucleic acid					
83	(C) STRANDEDNESS: single	•				
84	(D) TOPOLOGY: linear					
86	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:					
	ATGCATCACC ATCACCATCA CGATGAAGTC ACGGTAGAGA CGACCTCCGT CTTCCGCGCA	60				
	GACTTCCTCA GCGAGCTGGA CGCTCCTGCG CAAGCGGGTA CGGAGAGCGC GGTCTCCGGG	120				
	GTGGAAGGGC TCCCGCCGGG CTCGGCGTTG CTGGTAGTCA AACGAGGCCC CAACGCCGGG	180				
	TCCCGGTTCC TACTCGACCA AGCCATCACG TCGGCTGGTC GGCATCCCGA CAGCGACATA	240				
-	TTTCTCGACG ACGTGACCGT GAGCCGTCGC CATGCTGAAT TCCGGTTGGA AAACAACGAA	300				
	TTCAATGTCG TCGATGTCGG GAGTCTCAAC GGCACCTACG TCAACCGCGA GCCCGTGGAT	360				
	TCGGCGGTGC TGGCGAACGG CGACGAGGTC CAGATCGGCA AGCTCCGGTT GGTGTTCTTG	420				
	ACCGGACCCA AGCAAGGCGA GGATGACGGG AGTACCGGGG GCCCGTGAGC GCACCCGATA	480				
	GCCCCGCGCT GGCCGGGATG TCGATCGGGG CGGTCCTCCG ACCTGCTACG ACCGGATTTT	540				
	CCCTGATGTC CACCATCTCC AAGATTCGAT TCTTGGGAGG CTTGAGGGTC NGGGTGACCC	600				
	CCCCGCGGGC CTCATTCNGG GGTNTCGGCN GGTTTCACCC CNTACCNACT GCCNCCCGGN TTGCNAATTC NTTCTTCNCT GCCCNNAAAG GGACCNTTAN CTTGCCGCTN GAAANGGTNA	660 720				
	TTGCNAATTC NTTCTTCNCT GCCCNNAAAG GGACCNITAN CIIGCCGCIN GAAANGGINA TCCNGGGCCC NTCCTNGAAN CCCCNTCCCC CT	720 752				
	(2) INFORMATION FOR SEQ ID NO: 3:	132				
104 105						
105						
	· ·					
	107 (C) STRANDEDNESS: single 108 (D) TOPOLOGY: linear					
110	· ·					
	CATATGCATC ACCATCACCA TCACACTTCT AACCGCCCAG CGCGTCGGGG GCGTCGAGCA	· 60				
	CCACGCGACA CCGGGCCCGA TCGATCTGCT AGCTTGAGTC TGGTCAGGCA TCGTCGTCAG	120				
	CAGCGCGATG CCCTATGTTT GTCGTCGACT CAGATATCGC GGCAATCCAA TCTCCCGCCT	180				
	GCGGCCGGCG GTGCTGCAAA CTACTCCCGG AGGAATTTCG ACGTGCGCAT CAAGATCTTC	240				
	ATGCTGGTCA CGGCTGTCGT TTTGCTCTGT TGTTCGGGTG TGGCCACGGC CGCGCCCAAG	300				

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	ACCTACTGCG AGGAGTTGAA AGGCACCGAT ACCGGCCAGG CGTGCCAGAT TCAAATGTCC	360					
	GACCCGGCCT ACAACATCAA CATCAGCCTG CCCAGTTACT ACCCCGACCA GAAGTCGCTG	420					
	GAAAATTACA TCGCCCAGAC GCGCGACAAG TTCCTCAGCG CGGCCACATC GTCCACTCCA	480					
	CGCGAAGCCC CCTACGAATT GAATATCACC TCGGCCACAT ACCAGTCCGC GATACCGCCG	540					
121	CGTGGTACGC AGGCCGTGGT GCTCAMGGTC TACCACAACG CCGGCGGCAC GCACCCAACG	600					
122	ACCACGTACA AGGCCTTCGA TTGGGACCAG GCCTATCGCA AGCCAATCAC CTATGACACG	660					
	CTGTGGCAGG CTGACACCGA TCCGCTGCCA GTCGTCTTCC CCATTGTTGC AAGGTGAACT	720					
124	GAGCAACGCA GACCGGGACA ACWGGTATCG ATAGCCGCCN AATGCCGGCT TGGAACCCNG	780					
125	TGAAATTATC ACAACTTCGC AGTCACNAAA NAA	813					
127	(2) INFORMATION FOR SEQ ID NO: 4:						
129	(i) SEQUENCE CHARACTERISTICS:						
130	(A) LENGTH: 447 base pairs						
131	(B) TYPE: nucleic acid						
132	(C) STRANDEDNESS: single						
133							
135	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:						
137	CGGTATGAAC ACGGCCGCGT CCGATAACTT CCAGCTGTCC CAGGGTGGGC AGGGATTCGC	60					
	CATTCCGATC GGGCAGGCGA TGGCGATCGC GGGCCAGATC CGATCGGGTG GGGGGTCACC	120					
	CACCGTTCAT ATCGGGCCTA CCGCCTTCCT CGGCTTGGGT GTTGTCGACA ACAACGGCAA	180					
	CGGCGCACGA GTCCAACGCG TGGTCGGGAG CGCTCCGGCG GCAAGTCTCG GCATCTCCAC	240					
	CGGCGACGTG ATCACCGCGG TCGACGGCGC TCCGATCAAC TCGGCCACCG CGATGGCGGA	300					
	CGCGCTTAAC GGGCATCATC CCGGTGACGT CATCTCGGTG AACTGGCAAA CCAAGTCGGG	360					
	CGGCACGCGT ACAGGGAACG TGACATTGGC CGAGGGACCC CCGGCCTGAT TTCGTCGYGG	420					
	ATACCACCCG CCGGCCGGCC AATTGGA	447					
		11,					
148	6 (2) INFORMATION FOR SEQ ID NO: 5: 8 (i) SEQUENCE CHARACTERISTICS:						
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151	, ,						
152	· ·						
154							
	GTCCCACTGC GGTCGCCGAG TATGTCGCCC AGCAAATGTC TGGCAGCCGC CCAACGGAAT	60					
	CCGGTGATCC GACGTCGCAG GTTGTCGAAC CCGCCGCCGC GGAAGTATCG GTCCATGCCT	120					
	AGCCCGGCGA CGGCGAGCGC CGGAATGGCG CGAGTGAGGA GGCGGGCAAT TTGGCGGGGC	180					
	CCGGCGACGG NGAGCGCCGG AATGGCGCGA GTGAGGAGGT GGNCAGTCAT GCCCAGNGTG	240					
	ATCCAATCAA CCTGNATTCG GNCTGNGGGN CCATTTGACA ATCGAGGTAG TGAGCGCAAA	300					
	TGAATGATGG AAAACGGGNG GNGACGTCCG NTGTTCTGGT GGTGNTAGGT GNCTGNCTGG	360					
	NGTNGNGGNT ATCAGGATGT TCTTCGNCGA AANCTGATGN CGAGGAACAG GGTGTNCCCG	420					
	NNANNCCNAN GGNGTCCNAN CCCNNNNTCC TCGNCGANAT CANANAGNCG NTTGATGNGA	480					
		540					
	NAAAAGGGTG GANCAGNNNN AANTNGNGGN CCNAANAANC NNNANNGNNG NNAGNTNGNT	600					
	NNNTNTTNNC ANNNNNNTG NNGNNGNNCN NNNCAANCNN NTNNNNGNAA NNGGNTTNTT	604					
	NAAT	004					
	(2) INFORMATION FOR SEQ ID NO: 6:						
170							
171	, ,						
172	, ,						
173	• •						
	174 (D) TOPOLOGY: linear						
Τ/ρ	176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:						

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178	TTGCANGTCG AACCACCTCA CTAAAGGGAA	CAAAAGCTNG	AGCTCCACCG	CGGTGGCGGC	60
179	CGCTCTAGAA CTAGTGKATM YYYCKGGCTC	CAGSAATYCG	GYACGAGCAT	TAGGACAGTC	120
180	TAACGGTCCT GTTACGGTGA TCGAATGACC	GACGACATCC	TGCTGATCGA	CACCGACGAA	180
181	CGGGTGCGAA CCCTCACCCT CAACCGGCCG	CAGTCCCGYA	ACGCGCTCTC	GGCGGCGCTA	240
182	CGGGATCGGT TTTTCGCGGY GTTGGYCGAC	GCCGAGGYCG	ACGACGACAT	CGACGTCGTC	300
183	ATCCTCACCG GYGCCGATCC GGTGTTCTGC	GCCGGACTGG	ACCTCAAGGT	AGCTGGCCGG	360
184	GCAGACCGCG CTGCCGGACA TCTCACCGCG	GTGGGCGGCC	ATGACCAAGC	CGGTGATCGG	420
	G CGCGATCAAC GGCGCCGCGG TCACCGGCGG				480
	GATCGCCTCC GAGCACGCCC GCTTCGNCGA				540
	CTGGGGACTC AGTGTGTGCT TGCCGCAAA		GGNCTGGGCC	GGTGGATGAG	600
	CCTGACCGGC GACTACCTGT CCGTGACCGA				633
	(2) INFORMATION FOR SEQ ID NO: 7				
192	. , –				
193	• •	_			
194	• • • • • • • • • • • • • • • • • • • •				
195		ıle		•	
196					
198	` / ~			maaaaaaaaa	60
	CGACGACGAC GGCGCCGGAG AGCGGGCGCG				60
	CGGCACCACC CAGGAGGGAG TCGAATCATG				120
	CCCCGCCGAG CCGGCGCGC GGTCGCCGAG				180 240
	GCGGCTGCCCG AGCCGCTCGC CATGCTGTCC GCGACGTTGC GCGAGACACT GCTGGTGGGC				300
	GCGACGTTGC GCGAGACACT GCTGGTGGGC GCCGCCGCCG TCGCGGCCAG CCTGCGCTGC				360
	CTGTACGCGG CAGGCCAAAC CGACACCGCC				420
	GCCGGTGACC CGAACGCCAAAC CGACACCGCC GCCGGTGACC CGAACGCGCC GTATGTGGCG				420
	CCGCCGGCAC CGTTCGGCCC GGATGTCGCC				540
	CACTTCATCG CACGCCTGGT CCTGGTGCTG				600
	CGCGCCAAC AGCTCATGCG CCGCGCCGGT		· ·		660
	GAGCATCGGC CGGGCCGCTC CACCCGCCGG				720
	GCATGGCAA CACCGTCCGA GCCCATAGCA				780
	GACACCGCGC CGCACCTGCC GCCACCGACT				840
	TGGCACGGCG AGCCAATGCC GATGAGCAGT				900
	CCCGCCGACC TGCACGCGCC CACCCGTCTT				960
	GTGACCGACG ACGACGTCGC CGCGGCCCGA				1020
	GGCGCCTGG CCTGGGCCGC CTTCACCGCC				1080
	GCCGCCGAGG GCCAGGTGTC GCGGCAAAAC				1140
219	TAGGGTGTCA TCGCTGGCCC GAGGGATCTC	GCGGCGGCGA	ACGGAGGTGG	CGACACAGGT	1200
220	GGAAGCTGCG CCCACTGGCT TGCGCCCCAA	CGCCGTCGTG	GGCGTTCGGT	TGGCCGCACT	1260
221	GGCCGATCAG GTCGGCGCCG GCCCTTGGCC	GAAGGTCCAG	CTCAACGTGC	CGTCACCGAA	1320
222	GGACCGGACG GTCACCGGGG GTCACCCTGC	GCGCCCAAGG	AA		1362
224	(2) INFORMATION FOR SEQ ID NO: 8	:			
226					
227					
228					
229	(C) STRANDEDNESS: single				
. 230	·				
232					
234	GCGACGACCC CGATATGCCG GGCACCGTAG	CGAAAGCCGT	CGCCGACGCA	CTCGGGCGCG	60

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,843

DATE: 03/12/2002 TIME: 09:41:42

Input Set : N:\Crf3\RULE60\10084843.raw
Output Set: N:\CRF3\03122002\J084843.raw

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235	GTATCGCTCC	CGTTGAGGAC	ATTCAGGACT	GCGTGGAGGC	CCGGCTGGGG	GAAGCCGGTC	120
236	TGGATGACGT	GGCCCGTGTT	TACATCATCT	ACCGGCAGCG	GCGCGCCGAG	CTGCGGACGG	180
	CTAAGGCCTT						240
	TGCGCGAGCG						300
	TGATGGACCG						360
	CGAGGCGGTG						420
	CGCCCACGTT						480
	CGATTGAGGA					•	540
	GGGCTGGAGG						600
	CCTCCACGGG						660
	CGGGTGTGGT	+					720
	CGCACCCGGA						780
							840
	ATTTCAACCT						
_	TACACCGGCT						900
-	TGTTCGACGC						960
	ACACGATCAA	-					1020
	GCGGGGAGGT						1080
	GGATGCTCGC						1140
	TGCGGTTCCT						1200
	CGGCCCGCGC						1260
	CACTGGGTAT						1320
256	GCATACAGCA	GGCGGCGCAC	ACGGCATCGC	GGAGGCTGGC	CGAAGAGCGG	GGCGCATTCC	1380
257	CGGCGTTCAC	CGATAGCCGG	TTCGCGCGGT	CGGGCCCGAG	GCGCAACGCA	CAGGTCACCT	1440
258	CCGTCGCTCC	GACGGGCA					1458
260	(2) INFORMA	ATION FOR SE	EQ ID NO: 9:	:			•
262	(i) S	EQUENCE CHAI	RACTERISTICS	3:			
263	((A) LENGTH:	862 base pa	airs			
264	((B) TYPE: nu	icleic acid				
265	((C) STRANDEI	ONESS: singl	le			
266	((D) TOPOLOGY	7: linear				
268	(xi) SI	EQUENCE DESC	CRIPTION: SE	EQ ID NO: 9:	:		
270	ACGGTGTAAT	CGTGCTGGAT	CTGGAACCGC	GTGGCCCGCT	ACCTACCGAG	ATCTACTGGC	60
271	GGCGCAGGGG	GCTGGCCCTG	GGCATCGCGG	TCGTCGTAGT	CGGGATCGCG	GTGGCCATCG	120
272	TCATCGCCTT	CGTCGACAGC	AGCGCCGGTG	CCAAACCGGT	CAGCGCCGAC	AAGCCGGCCT	180
273	CCGCCCAGAG	CCATCCGGGC	TCGCCGGCAC	CCCAAGCACC	CCAGCCGGCC	GGGCAAACCG	240
	AAGGTAACGC						300
	CCGCGGTGCA						360
	CCGTCAAAGG						420
	TGGTGGTCAC						480
	CCGCCTACGT						540
	CGAATGAGAC						600
	GGACCGGGAT						660
	CCTACAATCT						720
	ATCAGCCGCC						780
	CGGAGTCTCC			IGATCGCTGA	IGGTCGATTC	CGCCAGCTGT	840
	GACAACCCCT			١.			862
∠86	(2) INFORMA	STREET WILLIAM	co to NO: 11				
288		EQUENCE CHAP					

(A) LENGTH: 622 base pairs

289

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/084,843

DATE: 03/12/2002 TIME: 09:41:43

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L:35 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
 L:36 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
 L\!:\!1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
 L:1325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
 L:1338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
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L:2241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
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 L:2245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
L:2257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
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L:10894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:345
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/084,843

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Input Set : N:\Crf3\RULE60\10084843.raw
Output Set: N:\CRF3\03122002\J084843.raw

L:10909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:346 L:10924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:347 L:10926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:347